

# DISTRICT OF COLUMBIA BUILDING CODE ADVISORY COMMITTEE

c/o DCRA/BLRA · 941 North Capitol Street, NE, Ste. 2000 · Washington, DC 20002

## CODE CHANGE PROPOSAL FORM

2003 ICC FAMILY OF CODES

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CODE	Existing Building Code	SECTION NO.	411	SUBCOMMITTEE AMENDMENT NO.	EX-4-5		
PROPOSING SUBCOMMITTEE	Ex.Struct	CHAIR	Stogis	PHONE	3016800864	E-mail	jfstogis@comcast.net
DATES: OF PROPOSAL	04/12/2005	BCAC PRESENTATION	04/20/2005	BCAC APPROVAL			

CHECK ONE ☐ *Revise section to read as follows:* ☐ *Delete section and substitute the following:*  
☒ *Add new section to read as follows:* ☐ *Delete section without substitution.*

TYPE ALL TEXT IN 12-POINT TIMES NEW ROMAN FONT

~~LINE THROUGH TEXT TO BE DELETED~~ (highlight text, under Format, click font and check strikethrough)

UNDERLINE TEXT TO BE ADDED

**411.2 Retroactive Requirements for Existing Elevators.** Existing elevators shall be made to comply with the applicable requirements stated below no later than three (3) years after the effective date of this code. The sections applicable to each type of elevator are as follows:

- Existing automatic elevators shall comply with sections 411.2.1 through 411.2.10.
- Existing manual / attendant operated elevators shall comply with Sections 411.2.3, 411.2.5 and 411.2.6. 411.2.7, 411.2.8, 411.2.9, and 411.2.10.
- Existing freight elevators shall comply with Section 411.2.3. 411.2.7, 411.2.8, and 411.2.9.

**411.2.1** ...

**411.2.3 Hydraulic elevator plungers.** Cylinders of existing hydraulic elevators installed without a safety bulkhead or of single wall construction shall be provided with either plunger grippers or replaced with a cylinder with a safety bulkhead, in conformance with ASME A17.1, Rule 3.18.3.4.

**411.2.3.1 Deferred Compliance Plan.** Submittal of a deferred compliance plan for retrofit of cylinders of existing hydraulic elevators shall, at a minimum, include compliance with the relevant periodic testing and inspection requirements set forth in Appendix N of ASME A17.1.

Anticipated impact of code change on cost of construction (CHECK ONE)

☒ *Increase* ☐ *Decrease* ☐ *Negligible* ☐ *Unknown*

If "Increase" box was checked, indicate estimated range of added cost:

Per 1,000 SF single-family dwelling	\$		to	\$	
Per 1,000SF of commercial building	\$		to	\$	

## **JUSTIFICATION OF CHANGE:**

This known hazard has been identified by the American Society of Mechanical Engineers Elevator and Escalator Safety Code Committee as a hazard that needs to be corrected, and as such was included in the A17.1-2002 elevator and escalator safety code.

Cylinders installed re-1971 were not required to be protected from surrounding soil and underground environment. As a result, they are vulnerable to corrosion. When the material becomes sufficiently corroded, the pressure of the elevator system will cause oil to escape the system, and the elevator will fall at the rate that the oil escapes the system (there are no safeties on hydraulic elevators). Injury and/or death will likely result.

Estimated cost of approximately \$35,000.